

ABSTRACT OF THE DISCLOSURE

MICROARRAYING APPARATUS, PIN HEAD THEREFOR, AND SPOTTING
METHOD

5 The invention is based on the realization that feedback control for the vertical drive
of a pin head becomes unnecessary if one instead prealigns the relative heights of the
spotting surface and the well plates such that the pins in the pin head are lowered to
the same absolute height both for picking up liquid from the well plates and
depositing it onto the spotting surface. By aligning the heights of the well plates and
10 spotting surfaces, the vertical drive of the pin head needs only to be able to
reproducibly and accurately arrive at a single lowered position. A pin head can
provide this functionality by having a mechanically defined bottom point, obviating
the need for a complex and costly feedback control system for height determination
of the pins. A simple, low-cost micro-arrayer can thus be provided.

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Figure 1

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